

Author Index of Volume B20

- Assadi, A., 71
- Bemiss, W.R., 145
Bergveld, P., 7
Borchardt, M., 1
Bos, M., 7
Bousse, L., 145
Brown, R.B., 239
Burggraf, N., 103
- Cammann, K., 1
Cha, G.S., 239
Cha, M.J., 239
Chen, Y., 247
Chen, Z., 151
Choi, S.-D., 139
Chung, W.-Y., 139
Cui, L., 151
- D'Amico, A., 217
Davide, F.A.M., 217
Dawes, T., 145
de Rooij, N.F., 103
Di Natale, C., 217
Dinelli, G., 163
Dumschat, C., 1
- Effenhauser, C.S., 103
- Faglia, G., 217
- Goldberg, H.D., 239
- Hara, K., 181
Högg, G., 1
Hower, R.W., 239
- Inganäs, O., 71
Ito, N., 125
Iwasaki, H., 119
- Jacobs, P., 193
Johnson, C.L., 55
- Kanai, Y., 175, 187
Katayama, A., 111
Katsube, T., 175, 187, 213
Katsura, T., 159
Kirk, G., 145
Kishimoto, Y., 225
Klusendorf, E.E., 49
Knoll, M., 1
Kondoh, J., 199
Kumura, J., 125
Kuriyama, T., 125
Kuвано, H., 231
- Lam, P., 145
Lee, D.-D., 139
Lee, H.-S., 49
Lee, K.S., 239
Lemos, R., 231
Li, G., 247
Liu, D., 239
Lu, D., 17
Lundström, I., 71
Luo, J., 7
- Maekawa, H., 175
Manz, A., 103
Martelet, C., 63
Martin, J.R., 63
Matsui, Y., 199
McReynolds, R.J., 145
Meguro, T., 205
Miura, N., 81, 95
Miyahara, Y., 89
Mizutani, F., 159
Moriizumi, T., 131
- Nakahara, H., 175
Nakahara, T., 111
Nakamoto, T., 131
- Nakamura, M., 231
Nakao, M., 119
Nelli, P., 217
Nishida, N., 181
- Oh, S., 33
Ohkoshi, H., 111
Olthuis, W., 7
- Parce, J.W., 145
Parmigiani, F., 163
Perego, C., 163
Pfaff, G., 43
- Quattroni, G., 163
- Saito, A., 125
Sakai, T., 169
Sansen, W., 193
Satake, K., 111
Sato, M., 205
Sato, T., 213
Sberveglieri, G., 163, 217
Schwank, J.W., 55
Shibata, Y., 89
Shim, C.-H., 139
Shimizu, M., 175, 187, 213
Shimizu, Y., 81
Shin, J.H., 239
Shiokawa, S., 199
Shiratori, M., 169
Smolenski, D.J., 49
Sonoda, Y., 131
Souteyrand, E., 63
Spetz, A., 71
Sugama, A., 27
Sugimoto, I., 231
Suls, J., 193
Sun, A., 151
Suzuki, H., 27
Svensson, C., 71
- Takeuchi, T., 111
Tian, C., 17
Trojanowicz, M., 239
Tsukada, K., 89
- Uchida, H., 175, 187, 213
Ustumi, S., 131
- van der Linden, W.E., 7
Verpoorte, E., 103
Viola, M.B., 49
- Wang, S.S., 49
Watanabe, Y., 89
Widmer, H.M., 103
Willander, M., 71
Wise, K.D., 55
Wlodarski, W.B., 199
Wolfson, Jr., S.K., 23
Wu, J., 17
Wu, W., 17
- Xu, H., 151
Xu, W., 23
- Yabuki, S., 159
Yagi, H., 169
Yamamoto, T., 205
Yamanouchi, K., 205
Yamashita, N., 131
Yamazoe, N., 81, 95
Yan, Y., 81
Yao, S.J., 23
Yao, S.-Y., 23
Yoshinobu, T., 119
- Zhang, G., 17
Zhang, H., 17
Zhang, W., 247
Zhou, C.G., 175
Zhou, Q., 151
Zhu, J., 17

Subject Index of Volume B20

- Air-fuel ratio sensor
a planar-type sensor for detection of oxidizing and reducing gases, 33
- Ammonia gas
interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Anodically oxidized aluminium
sensitivity of an anodically oxidized aluminium film on a surface acoustic wave sensor to humidity, 205
- Biomolecules
direct detection of biomolecules by electrochemical impedance measurements, 63
- Biosensors
micromachined multichannel systems for the measurement of cellular metabolism, 145
integrated biosensor employing a surface photovoltage technique, 187
- Buffer capacity
determination of buffer capacity by means of an ISFET-based coulometric sensor-actuator system with a gate-covering porous actuator, 7
- Calcium
high-performance solid-electrolyte SO_x sensor using MgO -stabilized zirconia tube and Li_2SO_4 - CaSO_4 - SiO_2 auxiliary phase, 81
- Carbon monoxide sensor
 $\text{Sn}_{1-x}\text{Fe}_x\text{O}_y$: a new material with high carbon monoxide sensitivity, 163
- Cation detector
multiionophore-based solid-state potentiometric ion sensor as a cation detector for ion chromatography, 239
- Cellular metabolism
micromachined multichannel systems for the measurement of cellular metabolism, 145
- Ceramic gas sensors
effect of powder preparation and sintering on the electrical properties of tin dioxide-based ceramic gas sensors, 43
- Chemical sensing
chemical sensing by analysing dynamics of plasma polymer film-coated sensors, 231
- Choline sensor
choline-sensing electrode based on polyethylene glycol-modified enzyme and mediator, 159
- Copper tetrasulphonated phthalocyanine film
SAW gas sensor with copper tetrasulphonated phthalocyanine film, 247
- Coulometric sensor-actuator system
determination of buffer capacity by means of an ISFET-based coulometric sensor-actuator system with a gate-covering porous actuator, 7
- Differential-conductivity sensor
performance of a planar differential-conductivity sensor for urea, 193
- Dynamic sensing
chemical sensing by analysing dynamics of plasma polymer film-coated sensors, 231
- Electrochemistry
direct detection of biomolecules by electrochemical impedance measurements, 63
- Engine-oil-condition sensors
in situ monitoring of high-temperature degraded engine oil condition with microsensors, 49
- Environmental sensors
environmental gas sensing, 95
- Enzyme immobilization
enzyme-immobilized SH-SAW biosensor, 199
- Enzyme modification
choline-sensing electrode based on polyethylene glycol-modified enzyme and mediator, 159
- Ethanol vapour
interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Exhaust monitoring
titania NO_x sensors for exhaust monitoring, 111
- Gas blender
active gas/odor sensing system using automatically controlled gas blender and numerical optimization technique, 131
- Gas sensing system
active gas/odor sensing system using automatically controlled gas blender and numerical optimization technique, 131
- Gas sensors
integrated ultra-thin-film gas sensors, 55
interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
environmental gas sensing, 95
light-addressable suspended-gate gas sensor, 213
- Glass electrode
micromachined glass electrode, 27
- Glucose sensing
low-potential glucose sensing utilizing a small planar electrode, 23
- Glucose sensors
microarray H_2O_2 electrodes as base elements of high-response glucose sensors, 17
an ISFET glucose sensor with a silicone rubber membrane for undiluted serum monitoring, 125
thin-film electrode based on TCNQ complex and immobilized enzyme for a glucose sensor, 225
- H_2S sensors
performance evaluation of an SnO_2 -based sensor array for the quantitative measurement of mixtures of H_2S and NO_2 , 217
- Humidity sensors
sensitivity of an anodically oxidized aluminium film on a surface acoustic wave sensor to humidity, 205

- Hydrogen peroxide
 - microarray H_2O_2 electrodes as base elements of high-response glucose sensors, 17
- Hydrogen sensors
 - H_2 sensors using Fe_2O_3 -based thin film, 181
- Immobilized enzyme
 - thin-film electrode based on TCNQ complex and immobilized enzyme for a glucose sensor, 225
- Impedance measurements
 - direct detection of biomolecules by electrochemical impedance measurements, 63
- Integrated sensors
 - integrated ultra-thin-film gas sensors, 55
- Ion chromatography
 - multiionophore-based solid-state potentiometric ion sensor as a cation detector for ion chromatography, 239
- Ion-selective membranes
 - microfibre matrix-supported ion-selective PVC membranes, 1
- Ion separation
 - a novel approach to ion separations in solution: synchronized cyclic capillary electrophoresis (SCCE), 103
- Iron oxide
 - $\text{Sn}_{1-x}\text{Fe}_x\text{O}_y$: a new material with high carbon monoxide sensitivity, 163
 - H_2 sensors using Fe_2O_3 -based thin film, 181
- ISFET
 - determination of buffer capacity by means of an ISFET-based coulometric sensor-actuator system with a gate-covering porous actuator, 7
 - an ISFET glucose sensor with a silicone rubber membrane for undiluted serum monitoring, 125
- Langmuir-Blodgett films
 - SAW gas sensor with copper tetrasulphonated phthalocyanine film, 247
- Laser-beam scanning
 - scanning-laser-beam semiconductor pH-imaging sensor, 119
- Light-addressable potentiometric sensing
 - light-addressable suspended-gate gas sensor, 213
- Lipid microresistors
 - lipid microresistor as mimicking olfactory sensor: the rule of the response of lipids to C_1 - C_4 alcohols, 151
- Liquified petroleum gas
 - tin oxide microsensor for LPG monitoring, 139
- Lithium
 - high-performance solid-electrolyte SO_x sensor using MgO -stabilized zirconia tube and Li_2SO_4 - CaSO_4 - SiO_2 auxiliary phase, 81
- Magnesium
 - high-performance solid-electrolyte SO_x sensor using MgO -stabilized zirconia tube and Li_2SO_4 - CaSO_4 - SiO_2 auxiliary phase, 81
- Mediators
 - choline-sensing electrode based on polyethylene glycol-modified enzyme and mediator, 159
- Microarray electrodes
 - microarray H_2O_2 electrodes as base elements of high-response glucose sensors, 17
- Micromachining
 - micromachined glass electrode, 27
 - micromachined multichannel systems for the measurement of cellular metabolism, 145
- Microsensors
 - in situ* monitoring of high-temperature degraded engine oil condition with microsensors, 49
 - tin oxide microsensor for LPG monitoring, 139
 - a nozzle-type ultra-micro-volume multi-ion sensor using a rear-gate SIS/ISFET, 169
- Multi-ion sensor
 - a nozzle-type ultra-micro-volume multi-ion sensor using a rear-gate SIS/ISFET, 169
- Nitric oxide gas
 - interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Nitrogen oxides
 - titanium NO_x sensors for exhaust monitoring, 111
- NO_2 sensors
 - performance evaluation of an SnO_2 -based sensor array for the quantitative measurement of mixtures of H_2S and NO_2 , 217
- Numerical optimization
 - active gas/odor sensing system using automatically controlled gas blender and numerical optimization technique, 131
- Odor sensing system
 - active gas/odor sensing system using automatically controlled gas blender and numerical optimization technique, 131
- Olfactory sensors
 - lipid microresistor as mimicking olfactory sensor: the rule of the response of lipids to C_1 - C_4 alcohols, 151
- Oxygen sensor
 - long-life planar oxygen sensor, 89
- P3OT
 - interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- pH-imaging sensor
 - scanning-laser-beam semiconductor pH-imaging sensor, 119
- Phosphatidylcholine
 - lipid microresistor as mimicking olfactory sensor: the rule of the response of lipids to C_1 - C_4 alcohols, 151
- Planar electrode
 - low-potential glucose sensing utilizing a small planar electrode, 23
- Planar-type sensor
 - a planar-type sensor for detection of oxidizing and reducing gases, 33
- Plasma polymer films
 - chemical sensing by analysing dynamics of plasma polymer film-coated sensors, 231
- Platinum
 - low-potential glucose sensing utilizing a small planar electrode, 23
- Poly(3-octylthiophene)
 - interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Polyethylene glycol
 - choline-sensing electrode based on polyethylene glycol-modified enzyme and mediator, 159
- Potentiometric ion sensor
 - multiionophore-based solid-state potentiometric ion sensor as a cation detector for ion chromatography, 239
- PVC
 - microfibre matrix-supported ion-selective PVC membranes, 1

- SAW gas sensors
 SAW gas sensor with copper tetrasulphonated phthalocyanine film, 247
- Schottky barrier diode
 interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Semiconductor sensor
 scanning-laser-beam semiconductor pH-imaging sensor, 119
- Serum monitoring
 an ISFET glucose sensor with a silicone rubber membrane for undiluted serum monitoring, 125
- SH-SAW biosensor
 enzyme-immobilized SH-SAW biosensor, 199
- Silicon
 high-performance solid-electrolyte SO_x sensor using MgO-stabilized zirconia tube and $\text{Li}_2\text{SO}_4\text{-CaSO}_4\text{-SiO}_2$ auxiliary phase, 81
- Silicone rubber
 an ISFET glucose sensor with a silicone rubber membrane for undiluted serum monitoring, 125
- SIS/ISFET structure
 a nozzle-type ultra-micro-volume multi-ion sensor using a rear-gate SIS/ISFET, 169
- SO_x sensor
 high-performance solid-electrolyte SO_x sensor using MgO-stabilized zirconia tube and $\text{Li}_2\text{SO}_4\text{-CaSO}_4\text{-SiO}_2$ auxiliary phase, 81
- Surface acoustic wave sensors
 sensitivity of an anodically oxidized aluminium film on a surface acoustic wave sensor to humidity, 205
- Surface photovoltage technique
 integrated taste sensor using surface photovoltage technique, 175
 integrated biosensor employing a surface photovoltage technique, 187
- Suspended-gate electrodes
 light-addressable suspended-gate gas sensor, 213
- Synchronized cyclic capillary electrophoresis
 a novel approach to ion separations in solution: synchronized cyclic capillary electrophoresis (SCCE), 103
- Taste sensor
 integrated taste sensor using surface photovoltage technique, 175
- Ternary oxide
 $\text{Sn}_{1-x}\text{Fe}_x\text{O}_y$: a new material with high carbon monoxide sensitivity, 163
- Tetracyanoquinodimethane complex
 thin-film electrode based on TCNQ complex and immobilized enzyme for a glucose sensor, 225
- Thin-film sensors
 integrated ultra-thin-film gas sensors, 55
 $\text{Sn}_{1-x}\text{Fe}_x\text{O}_y$: a new material with high carbon monoxide sensitivity, 163
 H_2 sensors using Fe_2O_3 -based thin film, 181
- Tin dioxide
 effect of powder preparation and sintering on the electrical properties of tin dioxide-based ceramic gas sensors, 43
- Tin oxide
 tin oxide microsensor for LPG monitoring, 139
 $\text{Sn}_{1-x}\text{Fe}_x\text{O}_y$: a new material with high carbon monoxide sensitivity, 163
- Tin oxide sensor arrays
 performance evaluation of an SnO_2 -based sensor array for the quantitative measurement of mixtures of H_2S and NO_2 , 217
- Titania
 titania NO_x sensors for exhaust monitoring, 111
- Urea sensor
 performance of a planar differential-conductivity sensor for urea, 193
- Water vapour
 interaction of planar polymer Schottky barrier diodes with gaseous substances, 71
- Zirconia
 high-performance solid-electrolyte SO_x sensor using MgO-stabilized zirconia tube and $\text{Li}_2\text{SO}_4\text{-CaSO}_4\text{-SiO}_2$ auxiliary phase, 81

